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Amendments to the Claims:

This listing of claims replaces all prior versions of the claims in the application:

Claim 56 (currently amended). A hydrogel foam formed ~~from~~ by polymerization of at least one ethylenically-unsaturated monomer and a multi-olefinic crosslinking agent in the presence of a blowing agent under foaming conditions effective to produce a porous polymer network ~~therein~~, which network has an average pore size of 10 μm to 3000 μm .

Claim 57 (currently amended). The hydrogel foam of claim [1]56, wherein the ratio of multi-olefinic crosslinking agent to ethylenically unsaturated monomer is in the range of 0.01:100 to 10:100.

Claim 58 (currently amended). The hydrogel foam of claim [1]56, wherein the at least one ethylenically-unsaturated monomer is selected from the group consisting of (meth)acrylic acid, salts of (meth)acrylic acid, esters of (meth)acrylic acid, salts and acids of esters of (meth)acrylic acid, amides of (meth)acrylic acid, N-alkyl amides of (meth)acrylic acid, salts and acids of N-alkyl amides of (meth)acrylic acid, N-vinyl pyrrolidinone,

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acrylamide, acrylamide derivatives, methacrylamide, methacrylamide derivatives, and mixtures thereof.

Claim 59 (currently amended). The hydrogel foam of claim [1]56, wherein the at least one ethylenically-unsaturated monomer is selected from the group consisting of acrylamide (AM), N-isopropylacrylamide (NIPAM), 2-hydroxyethyl methacrylate (HEMA), 2-hydroxypropyl methacrylate (HPMA), N-vinyl pyrrolidinone (VP), acrylic acid (AA), 2-acrylamido-2-methyl-1-propanesulfonic acid (AMPS), 3-sulfopropyl acrylate potassium salt (SPAK), 2-(acryloyloxy)ethyltrimethyl-ammonium methyl sulfate (ATMS), inorganic salts thereof, and mixtures thereof.

Claim 60 (currently amended). The hydrogel foam of claim [1]56, wherein the crosslinking agent is selected from the group consisting of N,N'-methylene-bisacrylamide, ethylene glycol di(meth)acrylate, piperazine diacrylamide, glutaraldehyde, epichlorohydrin, crosslinking agents containing 1,2-diol structures, crosslinking agents containing functionalized peptides, and crosslinking agents containing proteins.

Claim 61 (currently amended). The hydrogel foam of claim [1]56, which has a swelling ratio in the range of 2 to 1,000.

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Claim 62 (currently amended). The hydrogel foam of claim [1]56, which has a compression modulus in the range of 0.01 to 5 kg/cm².

Claim 63 (currently amended). The hydrogel foam of claim [1]56, which has a swelling time in the range of 10 seconds to 10 hours for a sample having a size in the range of 0.01 cm³ and larger.

Claim 64 (withdrawn). A method for treating a disease or disorder in a human or animal patient, said method comprising introducing onto or into the body of said patient a quantity of a hydrogel material comprising a crosslinked polymer, which hydrogel material has an average pore size of 10 μm to 3000 μm.

Claim 65 (withdrawn). The method of claim [9]64, wherein said hydrogel material further comprises particles of a disintegrant disposed within said crosslinked polymer.

Claim 66 (withdrawn). The method of claim [10]65, wherein said disintegrant is at least one of (i) a crosslinked natural or synthetic polyelectrolyte, (ii) a crosslinked neutral hydrophilic polymer, (iii) a non-crosslinked natural or synthetic polyelectrolyte having a particulate shape, (iv) a non-crosslinked neutral hydrophilic polymer having a particulate

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shape, or (v) a porous inorganic material that provides wicking by capillary forces.

Claim 67 (withdrawn). The method of claim [9]64, wherein said hydrogel material further comprises an effective amount of a therapeutic agent.

Claim 68 (withdrawn). The method of claim [9]64, wherein said hydrogel material is introduced into a bleeding site to thereby control bleeding.

Claim 69 (withdrawn). The method of claim [9]64, wherein said hydrogel material is introduced into the stomach to thereby control appetite.

Claim 70 (withdrawn). The method of claim [9]64, wherein the hydrogel material forms at least a portion of an artificial body part that is introduced into the body, said artificial body part being selected from the group consisting of artificial pancreas, artificial cornea, artificial skin, and artificial articular cartilage.

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Claim 71 (withdrawn). The method of claim [9]64, wherein the hydrogel material is introduced into a sub-mammary incision to thereby afford breast augmentation.

Claim 72 (withdrawn). The method of claim [9]64, wherein the hydrogel material is introduced into or onto the body as a tissue engineering substrate.

Claim 73 (withdrawn). The method of claim [9]64, wherein the hydrogel material is applied to a burn site as part of a burn dressing.